```
<!--StartFragment-->RESULT 2
AAE37790
ID
     AAE37790 standard; protein; 328 AA.
XX
AC
    AAE37790;
XX
DT
     06-NOV-2003 (first entry)
XX
DE
     Human diacylglycerol acyltransferase 2 (DGAT2), 112023.
XX
KW
     Human; diacylglycerol acyltransferase 2; DGAT2; obesity; arrhythmia;
     coronary artery disease; hypertension; heart failure; tissue typing;
KW
ΚW
     aberrant lipogenesis; cardiovascular disorder; atherosclerosis; angina;
ΚW
     atrial fibrillation; dilated cardiomyopathy; idiopathic cardiomyopathy;
     diabetes; chromosome mapping; forensic biology; enzyme.
KW
XX
OS
     Homo sapiens.
XX
PN
     WO2003053363-A2.
XX
PD
     03-JUL-2003.
XX
PF
     19-DEC-2002; 2002WO-US040974.
XX
     19-DEC-2001; 2001US-0341947P.
PR
PR
     19-SEP-2002; 2002US-0411859P.
XX
PA
     (MILL-) MILLENNIUM PHARM INC.
XX
PΙ
     Gimeno RE, Wu Z, Kapeller-Libermann R, Hubbard BK;
XX
DR
     WPI; 2003-559092/52.
    N-PSDB; AAD56890.
DR
XX
PΤ
     New human diacylglycerol acyltransferase 2 (DGAT2) family member
PT
     polypeptide and nucleic acid molecules, useful for diagnosing and
PT
     treating obesity, diabetes, atherosclerosis, aberrant lipogenesis or
PΤ
     triglyceride synthesis.
XX
PS
     Claim 6; Page 134-135; 154pp; English.
XX
CC
     The invention relates to human diacylglycerol acyltransferase 2 (DGAT2)
CC
     family members and their uses. DGAT2 family member sequences or their
CC
     modulators are useful for diagnosing and treating a subject with a
CC
     disorder associated with the aberrant DGAT family member polypeptide
CC
     activity or nucleic acid expression, such as a disorder associated with
CC
     obesity, diabetes, aberrant lipogenesis or triglyceride synthesis, or
CC
     cardiovascular disorder (e.g. atherosclerosis, coronary artery disease,
CC
     hypertension, heart failure, atrial fibrillation, arrhythmias, dilated
CC
     cardiomyopathy, idiopathic cardiomyopathy or angina). The invention is
CC
     also useful in screening assays (e.g. tissue typing, chromosome mapping,
CC
     or in forensic biology), in predictive medicine (e.g. diagnostic assays,
CC
     prognostic assays, monitoring clinical trials or pharmacogenetics), or as
CC
     surrogate markers (e.g. markers of disease states or markers of drug
CC
     activity). The present sequence is human DGAT2 protein
XX
SQ
     Sequence 328 AA;
                                  Score 1788; DB 1; Length 328;
  Query Match
                          99.2%;
  Best Local Similarity
                          99.4%;
  Matches 326; Conservative
                                 0; Mismatches
                                                   2; Indels
                                                                0; Gaps
                                                                              0;
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Qy	1	MAHSKQPSHFQSLMLLQWPLSYLAIFWILQPLFVYLLFTSLWPLPVLYFAWLFLDWKTPE 60
Db	1	MAHSKQPSHFQSLMLLQWPLSYLAIFWILQPLFVYLLFTSLWPLPVLYFAWLFLDWKTPE 60
QУ	61	RGGRRSAWVRNWCVWTHIRDYFPITILKTKDLSPEHNYLMGVHPHGLLTFGAFCNFCTEA 120
Db	61	RGGRRSAWVRNWCVWTHIRDYFPITILKTKDLSPEHNYLMGVHPHGLLTFGAFCNFCTEA 120
Qy	121	TGFSKTFPGITPHLATLSWFFKIPFVREYLMAKGVCSVSQPAINYLLSHGTGNLVGIVVG 180
Db 3	121	TGFSKTFPGITPHLATLSWFFKIPFVREYLMAKGVCSVSQPAINYLLSHGTGNLVGIVVG 180
Qy	181	GVGEALQSVPNTTTLILQKRKGFVRTALQHGAHLVPTFTFGETEVYDQVLFHKDSRMYKF 240
Db 3	181	GVGEALQSVPKTTTLILQKRKGFVRTALQHGAHLVPTFTFGETEVYDQVLFHKDSRMYKF 240
Qy 2	241	QSCFRRIFGFYCCVFYGQSFCQGSTGLLPYSRPIVTVVGEPLPLPQIEKPSQEMVDKYHA 300
Db 2	241	QSCFRRIFGFYCCVFYGQSFCQGSTGLLPYSRPIVTVVGEPLPLPQIEKPSQEMVDKYHA 300
Qy	301	LYMDALHKLFDQHKTHYGCSETQKLFFL 328
Db 3		LYMDALDKLFDQHKTHYGCSETQKLFFL 328